

To: Barber, Craig[Barber.Craig@epa.gov]; Sullivan, Kate[Sullivan.Kate@epa.gov]
From: Knightes, Chris
Sent: Wed 8/12/2015 8:08:44 PM
Subject: Brief Update

I'm doing some back of the envelope calculations just to set the stage a little.

We have that the Animas has a mean volumetric flow of 320 ft³/s in August.

We have that when the Animas joins the San Juan, flow is about 1260 ft³/s in August, so there is a dilution factor of about 0.25.

Brian is digging to find a better number, but wiki says that the San Juan flows at about 2200 ft³/s on average before it reaches Lake Powell, which would mean a dilution factor of 0.145.

If everything dumps into Lake Powell:

Lake Powell has a volume of 3.45×10^{17} gallons.

So the 3 million gallons would have a dilution factor of 8.7×10^{-12} once it hits the lake.